CARZ

A platform where users can post a car selling ad, and buy cars.

Micro services:

1. IdentityService
2. UserService – CRUD
3. AdvertisementService
4. CompanyBusinessService (CRUD for Changing commission, penalty, branches)
5. ConsultationService – Get car price

Modules:

1. User (Can buy and sell as well)
2. Admin

User:

1. View all posts
2. Post car for selling
3. Sell his car (Approve a bid)
4. Place a bid (Obviously not on his own ad)
5. Approve a bid (on his/her post)
6. Disable his/her Ad

Admin:

1. Change commission charge by company
2. Ban a user
3. Enable/Disable a user
4. Delete any ad
5. Add/update/delete Branch of company

Things that require attention:

1. Show cars ad in some range of area
2. Using gmail id for register

Future Enhancements:

1. Using AI to get condition of the car from images

Database:

Identity

1. Id
2. UserId – if it is null, user should fill required details, instead of going directly to home
3. Username
4. Password
5. CreatedAt
6. UpdatedAt
7. CreatedPublished
8. UpdatedPubished

Role

1. Id
2. Name

User

1. Id
2. RoleId
3. Name
4. Aadhaar/SSN
5. DOB
6. Age(Calculated)
7. Contact
8. Address
9. IsAdmin
10. IsEnabled
11. IsDeleted
12. CreatedAt
13. UpdatedAt
14. CreatedPublished
15. UpdatedPublished – for kafka use to publish message, send email

Variant

1. Id
2. Make – eg Ford
3. Model – eg Endevour
4. ModelVariant – eg 2.0 Titanium AT 4x4
5. Year
6. Transmission – Automatic, manual
7. KmRun
8. Last Service
9. Color
10. ChesisNumber
11. RegistedNumber
12. RegisteredState
13. RTONum – eg HR 02 – might be calculated from Registered number
14. Category (Hatchback, Sedan, SUV, etc)
15. Insured till

Advertisement

1. Id
2. VariantId
3. OwnerDescription
4. HealthStatus(Excellent/Good/Average/Poor)
5. Owner
6. Ownership – first owner, second owner ,etc
7. AskPrice
8. Bids
9. Buyer
10. Enabled(By owner) – If disabled by owner, penalize him
11. Closed
12. Blocked(By admin)
13. CreatedAt
14. UpdatedAt
15. CreatedPublished
16. UpdatedPublished – for kafka use to publish message, send email

Branch

1. Id
2. Name
3. Address
4. State
5. Country
6. Contact

CQRS

* Command and Query Responsibility Segregation